

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for georeferencing a raster map image, comprising:
 - displaying a raster map and a georeferenced map, wherein the raster map and the georeferenced map are separate maps;
 - marking a first point on the raster map;
 - identifying image coordinates associated with the first point on the raster map;
 - marking a first point on the georeferenced map;
 - identifying geographic coordinates associated with the first point on the georeferenced map that correspond to the first point on the raster map;
 - marking a second point on the raster map;
 - identifying image coordinates associated with the second point on the raster map;
 - marking a second point on the georeferenced map; and
 - identifying geographic coordinates associated with the second point on the georeferenced map; and
 - determining a mathematical relationship between the image coordinates and the geographic coordinates.

2. (Previously Presented) The method of claim 1, further comprising:
using the mathematical relationship to determine the geographic coordinates of
at least one feature on the raster map.
3. (Previously Presented) The method of claim 1, further comprising:
storing the mathematical relationship with the raster map.
4. (Previously Presented) The method of claim 1, further comprising:
manipulating the raster map to display a location on the raster map; and
updating the display of the georeferenced map to display a location identical to
the location displayed on the raster map.
5. (Original) The method of claim 1, wherein the geographic coordinates
are latitude and longitude.
6. (Original) The method of claim 1, wherein the raster map and the
georeferenced map are displayed on the same computer display.
7. (Original) The method of claim 1, wherein the corresponding points are
marked by a user after visually determining geographically corresponding points.
8. (Previously Presented) The method of claim 1, wherein the
mathematical relationship is represented by a set of general linear functions.

9. (Currently Amended) An apparatus for georeferencing a raster map image, comprising:

means for displaying a raster map and a georeferenced map, wherein the raster map and the georeferenced map are separate maps;

means for marking a first point on the raster map;

means for identifying image coordinates associated with the first point on the raster map;

means for marking a first point on the georeferenced map;

means for identifying geographic coordinates associated with the first point on the georeferenced map that correspond to the first point on the raster map;

means for marking a second point on the raster map;

means for identifying image coordinates associated with the second point on the raster map;

means for marking a second point on the georeferenced map; ~~and~~

means for identifying geographic coordinates associated with the second point on the georeferenced map; and

means for determining a mathematical relationship between the image coordinates and the geographic coordinates.

10. (Previously Presented) The apparatus of claim 9, further comprising:
means for using the mathematical relationship to determine the geographic coordinates of at least one feature on the raster map.

11. (Previously Presented) The apparatus of claim 9, further comprising:
means for storing the mathematical relationship with the raster map.
12. (Previously Presented) The apparatus of claim 9, further comprising:
means for manipulating the raster map to display a location on the raster map;
and
means for updating the display of the georeferenced map to display a location
identical to the location displayed on the raster map.
13. (Previously Presented) The apparatus of claim 9, wherein the
geographic coordinates are latitude and longitude.
14. (Previously Presented) The apparatus of claim 9, wherein the raster
map and the georeferenced map are displayed on the same computer display.
15. (Previously Presented) The apparatus of claim 9, wherein the
corresponding points are marked by a user after visually determining geographically
corresponding points.
16. (Previously Presented) The apparatus of claim 9, wherein the
mathematical relationship is represented by a set of general linear functions.

17. (Previously Presented) The method of claim 1 further comprising:
identifying image coordinates associated with at least one point on the raster map;
identifying geographic coordinates of points on the georeferenced map that correspond to the point identified on the raster map; and
revising the mathematical relationship.

18. (Previously Presented) The method of claim 17, wherein revising further comprises disregarding any points previously identified that are substantially inconsistent with the mathematical relationship.

19. (Previously Presented) The apparatus of claim 9 further comprising:
means for identifying image coordinates associated with at least one point on the raster map;
means for identifying geographic coordinates of points on the georeferenced map that correspond to the point identified on the raster map; and
means for revising the mathematical relationship.

20. (Previously Presented) The apparatus of claim 19, wherein the means for revising further comprises means for disregarding any points previously identified that are substantially inconsistent with the mathematical relationship.